



DoD and Veterans Affairs: *Health Information Interoperability*

Joint Venture
Conference
February 2006

Topics



- Path to Interoperability
- Federal Health Information Exchange (FHIE)
- Pre- and Post-Deployment Health Assessments
- Bidirectional Health Information Exchange (BHIE)
- Clinical Data Repository/Health Data Repository (CHDR)
- Laboratory Data Sharing Initiative (LDSI)
- Site Implementation Considerations
- BHIE/CHDR Interface
- Other Initiatives
- Summary

The Path to Interoperability



FHIE

Federal
Health
Information
Exchange

BHIE

Bidirection
al Health
Information
Exchange

CHDR

Clinical
Data
Repository
/ Health
Data
Repository

*Interoperable
Electronic
Health
Records*

Federal Health Information Exchange



Supports monthly, 1-time transfer of electronic health information from DoD to VA at the point of a Service member's separation



One-way, enterprise exchange of text data

F
H
I
E

Federal Health Information Exchange



- 3.27 million unique patients
- 45 million lab results
- 7.19 million radiology reports
- 45.2 million pharmacy records
- 41.8 million standard ambulatory data records
- Over 2 million separated Service members have presented to the VA
- ~2,700 messages transmitted daily in Dec 05 on VA patients treated by DoD under local sharing agreements

*As of
31 January 2006*

Pre-/Post-Deployment Health Assessments



Enables VA health care providers to
access pre- and post-deployment health
assessments on separated Service
members

P
P
D
H
A

Pre-/Post-Deployment Health Assessments

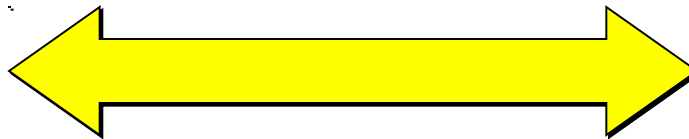


- Assessments transferred from DoD to Federal Health Information Exchange data repository
- Historical data pull of 400,000 assessments completed July 2005
- Monthly data transfer started in September 2005
- More than 515,000 assessments available on more than 266,000 individuals
- VA began retrieving the data in December 2005
- DoD plans to add post-deployment health reassessments in fiscal year 2006

Bidirectional Health Information Exchange



Enables real-time sharing of electronic health information between DoD and VA for shared patients



Two-way, BHIE sites and all of VA exchange of text data

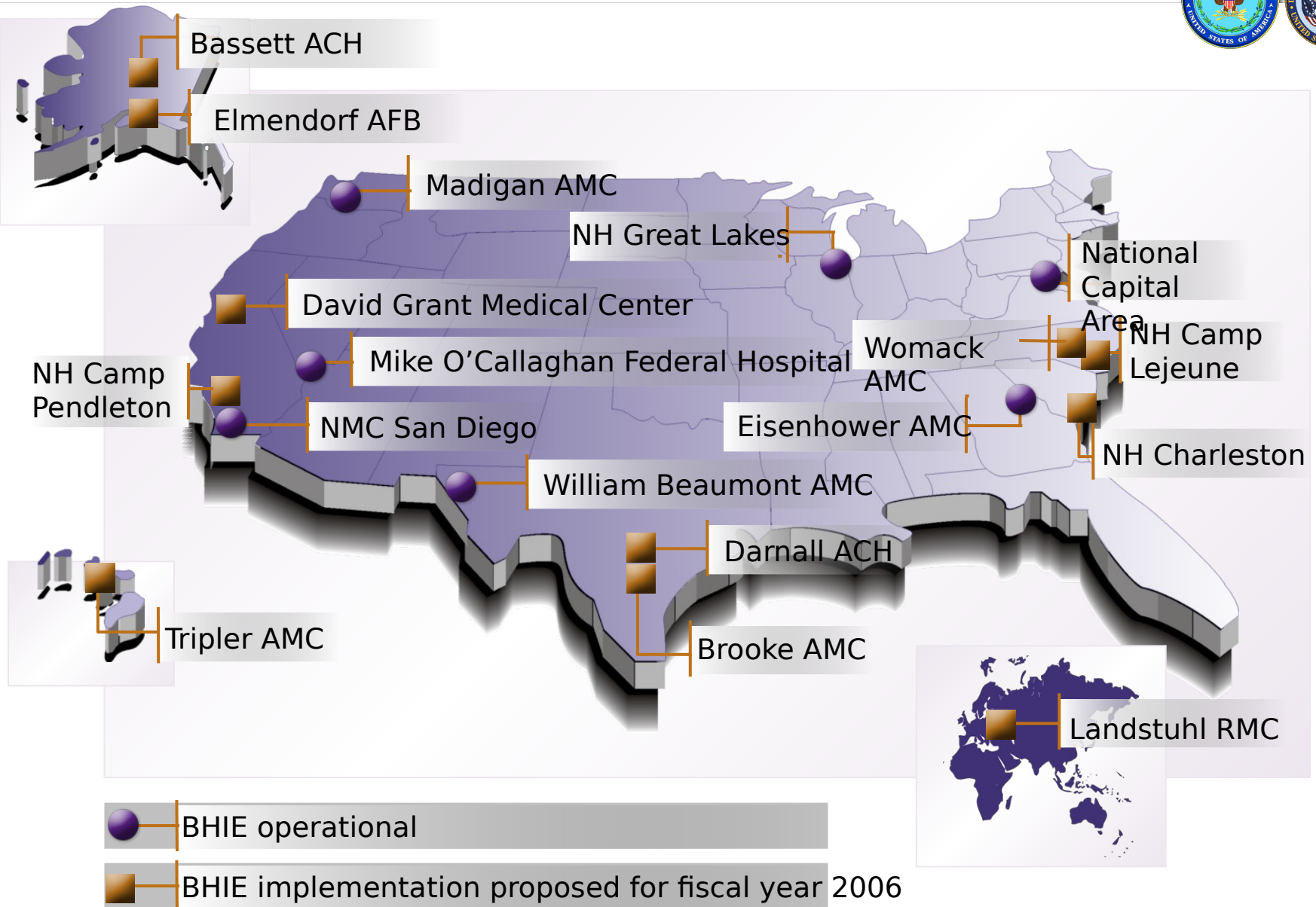
BHIE

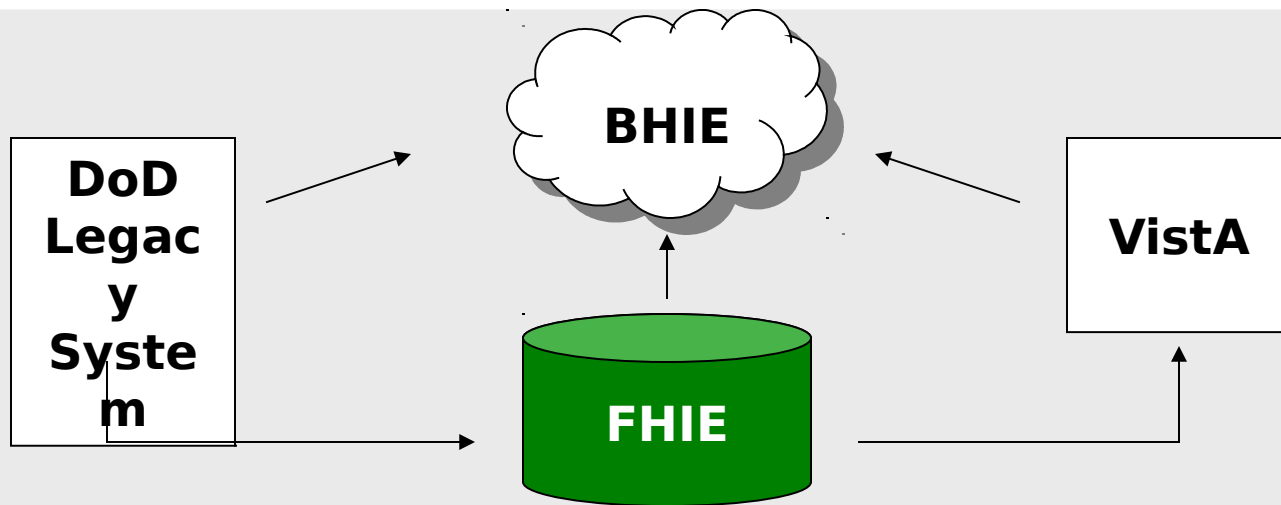
Bidirectional Health Information Exchange



- Allergy, outpatient pharmacy, demographic, laboratory, and radiology data
- 3,124 FHIE-BHIE queries/week (Jun-Dec 2005)
- Data from DoD BHIE sites available to all VA sites
- Deployment to additional sites in fiscal year 2006

BHIE Sites





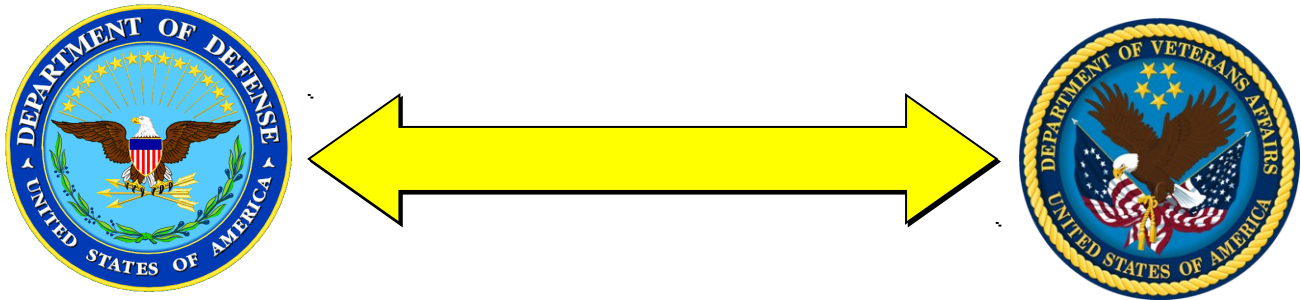
KEY

BHIE	Bidirectional Health Information Exchange
DoD	Department of Defense
FHIE	Federal Health Information Exchange
VistA	Veterans Health Information and Systems Technology Architecture

Clinical Data Repository/Health Data Repository



Will support interoperability between
DoD's Clinical Data Repository (CDR) &
VA's Health Data Repository (HDR)



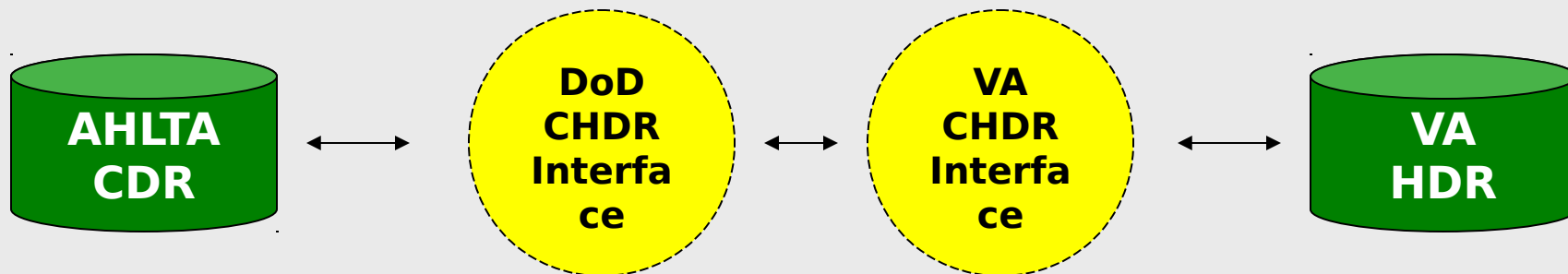
*Two-way, enterprise exchange of
computable data*

C
H
D
R

Clinical Data Repository/Health Data Repository



- Bidirectional exchange of demographics, outpatient pharmacy, and allergy data anticipated in fiscal year 2006
 - Support drug-drug and drug-allergy interaction checking
- Bidirectional exchange of laboratory data (chemistry and hematology) next data set



KEY

CDR	Clinical Data Repository
CHDR	Clinical Data Repository/Health Data Repository
HDR	Health Data Repository
VA	Department of Veterans Affairs

Laboratory Data Sharing Initiative



Supports bidirectional capability for either DoD or VA to act as a reference lab for order entry and results retrieval (lab chemistries)

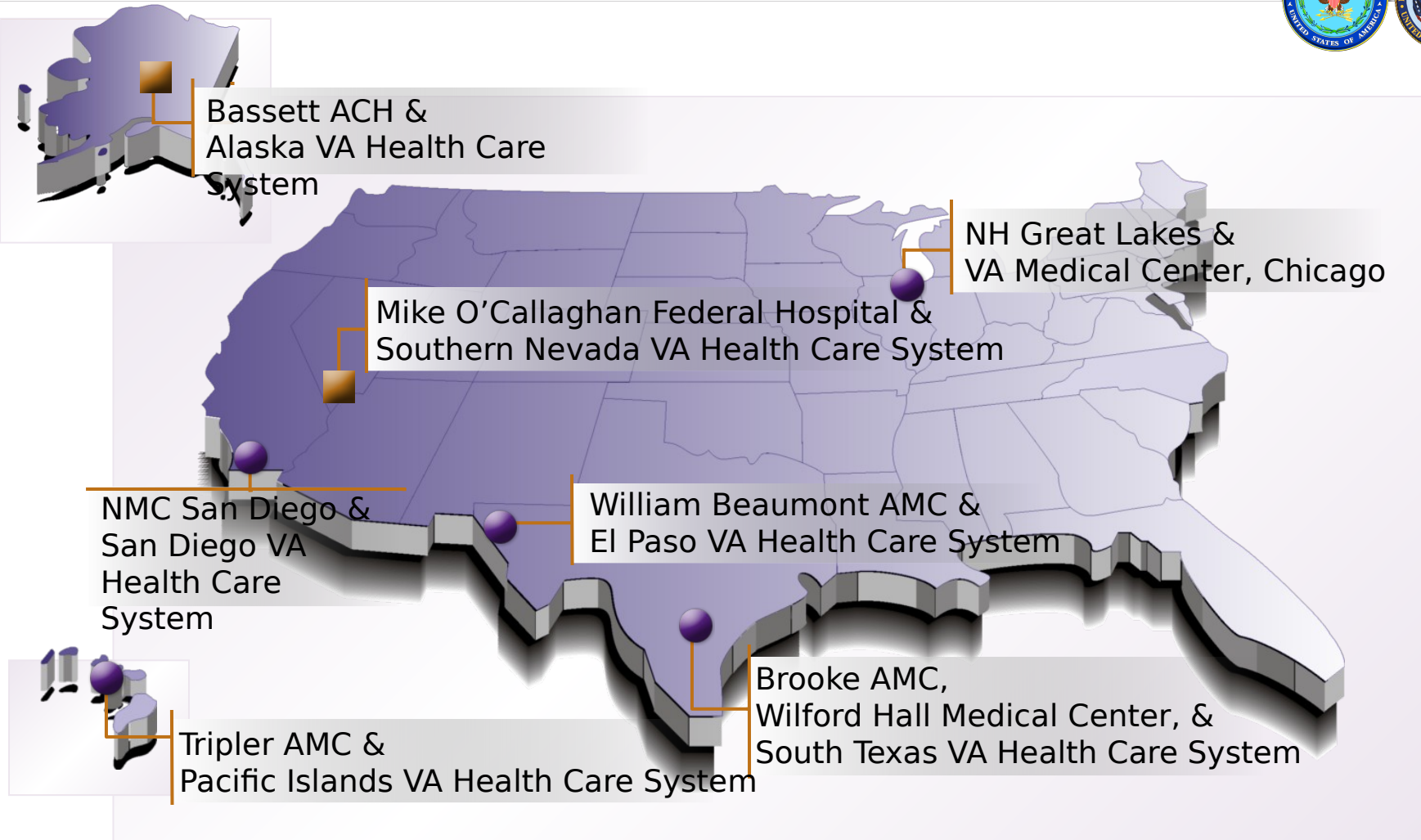
L
D
S
I



Laboratory Data Sharing Initiative



- LDSI metrics from National Defense Authorization Act (NDAA) demonstration sites
 - El Paso, Texas (Started January 2005)
 - 40 tests mapped – using 25
 - 574 tests in January 2006
 - San Antonio, Texas (Started August 2005)
 - 7 tests mapped – using 7
 - 142 tests in January 2006
- Adding functionality for anatomic pathology and microbiology
 - Anticipate testing in June 2006 (El Paso) and July 2006 (San Antonio)

LDSI Sites



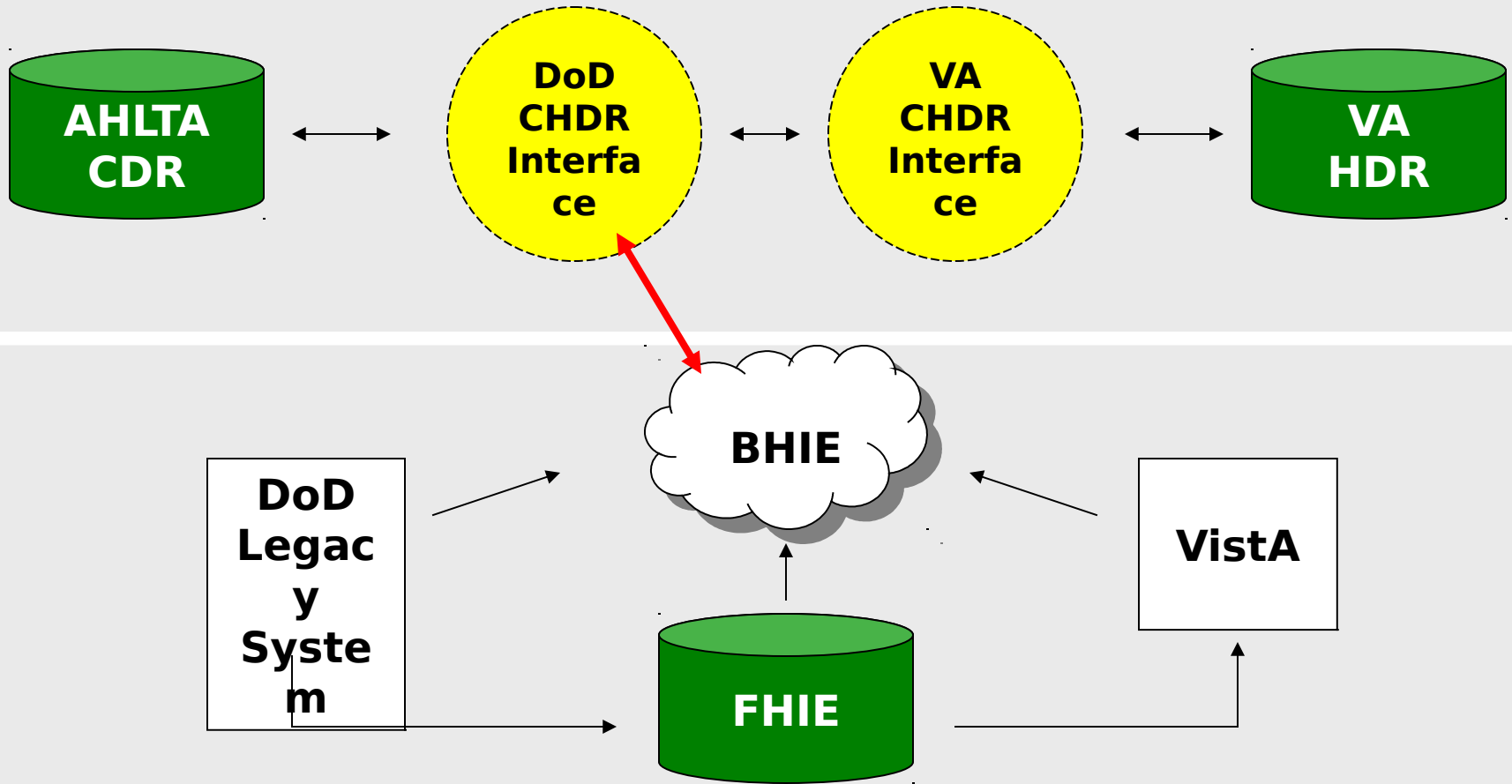
-  LDSI operational
-  LDSI discussions ongoing

Site Implementation Considerations



- Business Case
- Leadership support
- MOU/MOA and sharing agreements
- Facility schedule
- IT and functional and staff availability
- Minimal training required
- None or minimal additional costs for hardware infrastructure

BHIE/CHDR Interface



KEY

BHIE
CDR
CHDR

Bidirectional Health Information Exchange
Clinical Data Repository
Clinical Data Repository/Health Data
Repository
Department of Defense

FHIE
HDR
VA
VistA

Federal Health Information Exchange
Health Data Repository
Department of Veterans Affairs
Veterans Health Information and Systems Technology
Architecture

Other Initiatives



- Inpatient documentation
- Image sharing
- Medical record scanning



Summary

DoD and VA Are...



- Sharing large volumes of electronic health information
- Making progress on interoperable health records
- Continuing to enhance HIPAA compliant data sharing solutions